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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/527,917	10/14/2005	Eberhard Rau	3186	8573
7590 02/26/2008 Striker Striker & Stenby 103 East Neck Road			EXAMINER	
			CAZAN, LIVIUS RADU	
Huntington, N	Y 11743		ART UNIT	PAPER NUMBER
			3729	
			MAIL DATE	DELIVERY MODE
			02/26/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/527,917 RAU ET AL. Office Action Summary Examiner Art Unit LIVIUS R. CAZAN 3729 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 13 April 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 11-23 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 11-23 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 16 March 2005 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1,121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/S6/08) Notice of Informal Patent Application Paper No(s)/Mail Date 3/16/05 6) Other: PTOL-326 (Rev. 08-06)

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DETAILED ACTION

Claim Rejections - 35 USC § 103

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter perfains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 11-15, 17, and 19-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Adachi (US6317962, corresponding to JP9103052 cited by the Applicant).

Adachi discloses substantially steps a-e of claims 11 and 19. See page 1, Ins. 5-19 of the present specification. See In. 50 of col. 2 to In 20 of col. 3 of Adachi. The welding seam is disposed on a radial outside of the yoke at 51b in Fig. 1 of Adachi and also on an axial end of the stator core, to the extent an axis can pass through the end comprising the welding seam. The stator thus formed is for a generator (see col. 1, Ins. 5-10 of Adachi).

Adachi does not disclose the welding seam depth being a function of the yoke height and a tolerance value and being given by the formula claimed in claims 11 and 19, nor the tolerance value being 1 or 0.5 mm as claimed in claims 12, 13, 21 and 22, nor the welding seam depth having a minimum value being given by a formula as claimed in claims 14 and 23.

However, at the time the invention was made, it would have been obvious to one of ordinary skill in the art to optimize the welding seam depth in order to obtain the most

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reliable weld. It has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch. 617 F.2d 272, 205 USPQ 215 (CCPA 1980). In particular, it is readily apparent to one of skill in the art that the weld quality depends directly on the welding seam depth, since if the welding seam is too thin the weld in not reliable, and if it is too think, excess work is required to obtain the deeper welding seam. Moreover, it is readily apparent that as the height of the stack increases, the mass of the stator increases too, which necessitates a deeper welding seam, in order to ensure the weld holds the laminations together. At the time the invention was made, it would have been obvious to one of ordinary skill in the art to optimize the weld seam depth in order to obtain the best quality weld necessary for a particular stack height. It is deemed that one of ordinary skill in the art, upon performing such an optimization, would obtain a weld seam depth that satisfies the claimed formulas. Moreover, regarding the particular tolerance values, it would have been obvious to one of ordinary skill in the art to choose a tolerance value based on the specific design requirements. For example, stators and rotors of electrical machines require high tolerances because there can be no friction between a stator and a rotor or a mechanical imbalance caused by uneven mass distribution. As such, the tolerance value would be chosen so as to ensure proper functioning of the machine and is a matter of engineering design choice.

 Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Adachi in view of Rich (US4102040). Application/Control Number: 10/527,917

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Adachi discloses substantially the same invention as the Applicant, except for the welding seam being between two tooth halves, as claimed.

Rich teaches placing a welding seam at such a location (see Figs. 6 and 8 for example).

At the time the invention was made, it would have been obvious to one of ordinary skill in the art to modify the invention of Adachi in view of the teachings of Rich, by providing a welding seam as claimed since Rich teaches an alternative location for placing the seam, as known in the art.

 Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Adachi in view of Ozawa (JP2001231190).

Adachi discloses substantially the same invention as the Applicant except for utilizing a laser to perform the weld.

Ozawa teaches that it is known to do so (see abstract).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made, to utilize a laser to weld the stator laminations, since this is an art-recognized method of welding stator cores similar to those of Adachi.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LIVIUS R. CAZAN whose telephone number is (571)272-8032. The examiner can normally be reached on M-T 6:30AM-5:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor. Peter Vo can be reached on (571)272-4690. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

/A. Dexter Tugbang/

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner

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/L. R. C./ 2/19/2008 Examiner, Art Unit 3729